

RICHARD (RICK) K. KOELSCH, PH.D.

Title: Professor, University of Nebraska - Lincoln

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Earned Degrees:

Ph.D.	1992	Cornell University	Major: Ag. & Biological Engineering Minor: Animal Science
M.S.	1977	Kansas State University	Major: Agricultural Engineering
B.S.	1975	Kansas State University	Major: Agricultural Engineering

Employment History:

Professor	University of Nebraska	2008 - present
Associate Dean for Extension, University of Nebraska-Lincoln		2011- 2015
Assistant Dean for Extension, University of Nebraska-Lincoln		2008-2011
Extension Administration (0.4 FTE) Univ. of Nebraska		2005-07
Associate Professor	University of Nebraska	2001-07
Assistant Professor	University of Nebraska	1995-2001
Senior Extension Assoc.	Cornell University	1978-1995
Research Associate	Kansas State University	1976-1978

Honors and Awards:

- National eXtension Community of Practice Award (2011)
- NASULGC Excellence in Extension Regional Award (2006)
- ASABE Presidential Citation (2006)
- ASABE Standards Development Award (2005)
- ASAE Gunlogoson Countryside Engineering Award (2005)
- Member of the Year, ASAE Mid-Central (1999)
- New Nebraska Extension Specialist Award (1998)
- Nebraska Pork Producers Association Pork Industry Service Award (1996)

Responsibilities:

Rick returned in 2016 to the Departments of Biological Systems Engineering and Animal Science where he had extension and research responsibilities for agricultural environmental related issues. He has provided national leadership of a Livestock and Poultry Environmental Learning Center that hosts a national eXtension web site a monthly web seminar on animal manure issues. He will have responsibility for programs targeting animal manure management and sustainability of agricultural systems.

Rick Koelsch recently completed his role as Associate Dean for Extension programs at the University of Nebraska. He was primarily responsible for extension programs in agriculture, natural resources, and community development. He is engaged was facilitation of extension action teams, impact assessment and evaluation, distance learning and internet technology application in Extension.

Sample Professional Activities:

- Co-Chair of North Central Cropping Systems Academy (2015)
- Executive Committee for North Central Water Network (2014- present)
- Chair of North Central Agriculture and Natural Resource Program Leaders (2010-2011)
- Member of USDA NIFA Impact Indicators work group (2011)
- Member of national eXtension strategic planning committee (2009)
- Six-month study leave with USDA NRCS's Animal Husbandry and Clean Water Program with focus on policy implementation issues.
- Program Chair for International Symposium on Animal, Agriculture, and Food Processing Wastes (2006)
- Past chair for Structures and Environment Division steering committee of ASABE (2005-06),
- Member of the National Cattlemen's Beef Association Environmental committee(2000-06),

Recent Publications

Refereed Journal Articles

- Kissinger W. F., Koelsch, R. K., Erickson, G. E., and Klopfenstein, T. J. 2007. Characteristics of manure harvested from beef cattle feedlots. *Applied Engineering in Agriculture*. 23(3): 357-365.
- Risse, L M, W L Bland, R K Koelsch, E A Bird, and T M Bass. 2006. An American Experiment with Environmental Management Systems for Livestock and Poultry Operations. *Farm Policy Journal*, Australian Farm Institute. 3(4) 23-32.
- Koelsch, R., J. Lorimor, and K. Mankin. 2006. Vegetative treatment systems for open lot runoff: review of literature. *Applied Engineering in Agriculture*. 22(1)141-153.

Books and Book Chapter

- R. Koelsch (editor and co-author). 2006. *Vegetative Treatment Systems for Open Lot Runoff*. USDA NRCS Guidance Document. <http://www.heartlandwq.iastate.edu/ResourceList.aspx?IssueID=3&Menu=2&TopicID=67>. 173 pages.
- Summers, R, R. Koelsch, and L. Wuff. *Understanding Environmental Regulations and Procedures for Evaluating Alternative Technologies*. Chapter 2. 12 pages
- Koelsch, R., J. Lorimor, B. Boyd, and J. Brach. *System Options Based Upon Vegetative Treatment Areas*. Chapter 3. 12 pages.
- Koelsch, R., D. Frundle, and J. Porter. *Sighting Criteria for Vegetative Treatment Systems*. Chapter 4. 14 pages.
- J. Nienaber, J. George, R. Koelsch. *Liquid-Solid Separation*. Chapter 5. 18 pages.

Professional Society Papers

- Koelsch, R., J. Heemstra, J. Harrison, M. Risse. 2009. *Livestock and Poultry Environmental Learning Center - Connecting with Clientele Using Web 2.0*. 2009 ASABE Annual International Meeting. Reno, Nevada. June 21–24, 2009. 19 pages.
- R. Koelsch, M. Risse, J. Harrison, J. Heemstra, and F. Hummenik. 2007. *National livestock and poultry environmental learning center*. Broomfield, CO. Proceedings to be published, September, 2007 at <http://www.asabe.org>.
- R. Koelsch, R. Massey, G. Erickson, and V. Bremer. 2007. *Software Tool for Integrating Feed Management*. International Symposium on Air Quality and Waste Management for Agriculture. Broomfield, CO. Proceedings to be published, September, 2007 at <http://www.asabe.org>.
- Massey, R., T. Applegate and R. Koelsch. 2007. "Economics Of Land Application Of Laying Hen Manure." [unpaginated CD-ROM]. Proceedings of the Multi-state Poultry Feeding and Nutrition Conference. Indianapolis, IN. May 22-24, 2007.

Extension Bulletins/Circulars

- Regassa, T., Koelsch, R., Scheideler, S., Masa'deh, M. 2009. Impact of feeding distillers grains on comprehensive nutrient management planning for poultry layer production systems. University of Nebraska-Lincoln Extension RP 194. <http://www.ianrpubs.unl.edu/epublic/live/rp194/build/rp194.pdf>. 6 pages.
- Regassa, T., Koelsch, R., Erickson, G. 2009. Impact of feeding distillers grains on nutrient planning for beef cattle systems. University of Nebraska-Lincoln Extension RP 190. <http://www.ianrpubs.unl.edu/epublic/live/rp190/build/rp190.pdf>. 8 pages.
- Regassa, T., Koelsch, R., DeRouchey, J.. 2009. Impact of feeding distillers grains on comprehensive nutrient management planning for swine. University of Nebraska-Lincoln Extension RP 191. <http://www.ianrpubs.unl.edu/epublic/live/rp194/build/rp191.pdf>. 6 pages.
- Regassa, T., Koelsch, R., Kononoff, P. 2009. Impact of feeding distillers grains on nutrient management planning on dairy farms. University of Nebraska-Lincoln Extension RP 193. <http://www.ianrpubs.unl.edu/epublic/live/rp193/build/rp193.pdf>. 8 pages.
- Regassa, T.H., R.K. Koelsch, C.W. Wortmann, R.F. Randle, and A.A. Abunyewa. 2009. Antibiotic use in animal production: environmental concerns. University of Nebraska RP196.
- Bremer, Virgil R., Terry J. Klopfenstein, Galen E. Erickson, Richard K. Koelsch, Raymond E. Massey, and Judson Vasconcelos. 2009. "Effects of Feeding Wet Distillers Grains Plus Solubles on Feedlot Manure Value" (MS #1503). Nebraska Beef Cattle Reports. Pg 89-90. <http://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=1503&context=animalscinbcr>
- Bremer, V. R., R. K. Koelsch, R. E. Massey, and G. E. Erickson. 2008. Effects of distillers grains and manure management on nutrient management plans and economics. Nebraska Beef Rep. MP91:59-61
- Kranz, W., R. Koelsch, C. Shapiro. 2007. Application of Liquid Manures Using Center Pivot Irrigation Systems. University of Nebraska Extension Circular 788. <http://www.ianrpubs.unl.edu/sendIt/ec778.pdf>.